

Appl. No. 10/783,555
Amdt. Dated December 15, 2006
Reply to Office action of September 18, 2006

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the above-identified application:

1. (currently amended): An integrated noise suppression acoustic panel, comprising:
a back plate;
a face plate; and
a bulk foam absorber disposed between the back plate and the perforated face plate, the bulk foam absorber comprising a thermoset material and having a density gradient between the first side and second side.

wherein the density of the bulk foam absorber at the first side is greater than the density of the bulk foam absorber at the second side.

2. (original): The panel of Claim 1, further comprising:
a plurality of open cells formed in the bulk foam absorber.

3. (original): The panel of Claim 1, wherein the bulk foam absorber includes at least a first side that is at least partially coupled to the back plate and a second side that is at least partially coupled to the face plate.

4. (canceled).

5. (canceled).

6. (original): The panel of Claim 1, wherein the thermoset material is at least one of bismaleimide, a phenolic, an epoxy, or a polyimide.

7. (original): The panel of Claim 1, wherein:
the back plate is substantially imperforate; and

Appl. No. 10/783,555

Amdt. Dated December 15, 2006

Reply to Office action of September 18, 2006

the face plate is at least partially perforated.

8. (original): The panel of Claim 1, wherein the bulk foam absorber further comprises a blowing agent.

9. (original): The panel of Claim 1, wherein the blowing agent is at least one of a solid powder or a liquid.

10. (original): The panel of Claim 1, wherein the foam bulk absorber further comprises a reinforcement material.

11. (currently amended): The panel of Claim ~~[[9]]~~ 10, wherein the reinforcement material comprises a synthetic polymer fiber.

12. (currently amended): The panel of Claim ~~[[9]]~~ 10, wherein the reinforcement material comprises a powdered carbon fiber.

13-36. (canceled).